

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet 1 of 1

Application Number

Assigned

U/510351

Filing Date

October 5, 2004

First Named Inventor

Jing Hua Teng

Group Art Unit

Examiner Name

Attorney Docket

3136.ARTH.PT

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
<i>mm</i>		US-4,751,194	06-14-1988	Cibert et al.	
		US-5,238,868	08-24-1993	Elman et al.	
		US-5,395,793	03-07-1995	Charbonneau et al.	
		US-6,027,989	02-22-2000	Poole et al.	
		US-6,238,944	05-29-2001	Floyd	
		US-6,514,784	02-04-2003	Dubowski	
		US-2001/0041379	11-15-2001	Sakata	
		US-2002/0003918	01-10-2002	Ooi et al.	
<i>mm</i>		US-2002/0004253	01-10-2002	Ooi et al.	
		US-			
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		Country Code ³ - Number ⁴ - Kind Code ⁵ (if known)				
<i>mm</i>		GB2358281	07-18-2001	Sharp Kabushiki Kaisha		
<i>mm</i>		GB2369492	05-29-2002	Kamelian Limited		

Examiner Signature

[Signature]

Date Considered

2/7/07

*EXAMINER: Initial if reference considered, whether or not citation in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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Substitute for form PTO-1449

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MAY 31 2005

Complete if Known

Application Number	10/510,357
Filing Date	October 5, 2004
First Named Inventor	Jin Hua Teng et al.
Group Art Unit	2812
Examiner Name	
Attorney Docket	3136.ARTH.PT

U.S. PATENT DOCUMENTS

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		Number-Kind Code ² (if known)			
nm		US-6,005,881	12-21-1999	Ikoma	
		US-5,915,165	06-22-1999	Sun et al.	
		US-5,886,370	03-23-1999	Sun et al.	
		US-5,843,802	12-01-1998	Beernink et al.	
		US-5,832,019	11-03-1998	Paoli et al.	
		US-5,815,522	09-29-1998	Nagai	
		US-5,766,981	06-16-1998	Thornton et al.	
		US-5,764,669	06-09-1998	Nagai	
		US-5,757,023	05-26-1998	Koteles et al.	
		US-5,708,674	01-13-1998	Beernink et al.	
		US-5,399,900	03-21-1995	Ko et al.	
		US-4,865,923	09-12-1989	Ralston et al.	
nm		US-4,731,338	03-15-1988	Ralston et al.	
		US-			
		US-			

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T*
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Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s) publisher city and/or country where published

↑

DEPPE, D.G. et al., "Atom diffusion and impurity-induced layer disordering in quantum well III-V semiconductor heterostructures." J. Appl. Phys. Vol 64 (12), December 15, 1988, pp. R93-113

OOI, BOON SIEW et al., "Selective Quantum-Well Intermixing in GaAs-AlGaAs Structures Using Impurity-Free Vacancy Diffusion." Ieee Journal of Quantum Electronics, Vol. 33, No. 10, October 1997, pp.1784-1793.

CHOI, W.J. et al., "Dependence of Dielectric-Cap Quantum-Well Disordering of GaAs-AlGaAs Quantum-Well Structure on the Hydrogen Content in SiN_x Capping Layer." Ieee Journal of Selected Topics in Quantum Electronics, Vol. 4, No. 4, July/August 1998, pp. 624-628.

TENG, J.H. et al., "Control of the band-gap shift in quantum-well intermixing using a germanium interlayer." Applied Physics Letters. Vol 76, No. 12, March 20, 2000, pp. 1582-1584.

MARSH, J.H. et al., "Quantum well intermixing in material systems for 1.5 μm (invited)." *J. Vac. Sci. Technol. A* Vol. 16(2), Mar/Apr 1998, pp. 810-816.

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